

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P247571

Luminaire Tested: **LD8B90D010 ER8B90930 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B90D010 ER8B90930 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7774.1 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

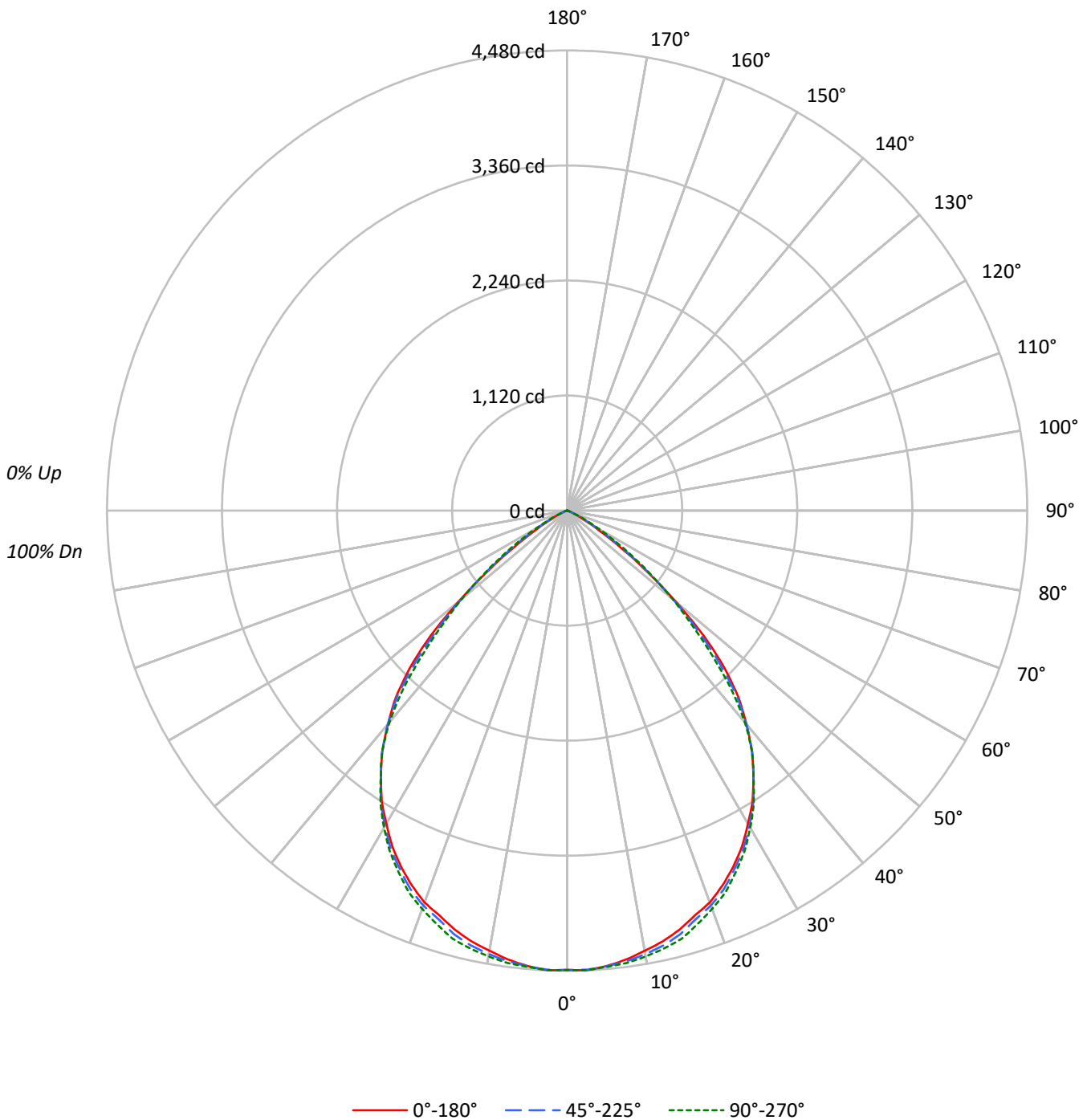
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20							
RC	80				70				50				30				10				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100		
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81	81	81	81	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73	73	73		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65	65	65	65		
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58	58		
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53	53		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48	48	48	48	48		
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43	43	43	43	43		
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39	39	39	39	39		
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36	36	36	36	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.0	5.4
10°-20°	1201.4	15.5
20°-30°	1771.8	22.8
30°-40°	1972.1	25.4
40°-50°	1587.1	20.4
50°-60°	674.9	8.7
60°-70°	126.5	1.6
70°-80°	15.3	0.2
80°-90°	1.9	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3396.2	43.7
0°-40°	5368.4	69.1
0°-60°	7630.4	98.2
0°-90°	7774.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7774.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4472	4472	4472	4472	4472	
5°	4450	4451	4452	4459	4458	422
15°	4224	4247	4268	4300	4314	1190
25°	3825	3839	3853	3875	3884	1758
35°	3160	3161	3163	3164	3164	1968
45°	2168	2150	2092	2029	1999	1630
55°	670	685	726	754	773	638
65°	84	93	105	112	126	108
75°	8	10	16	15	14	13
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4472.3	4472.3	4472.3	4472.3	4472.3
2.5°	4479.7	4482.5	4473.2	4475.0	4477.8
5°	4449.9	4450.9	4451.8	4459.2	4458.3
7.5°	4408.1	4414.6	4425.8	4439.7	4443.4
10°	4351.4	4368.1	4384.9	4401.6	4407.2
12.5°	4295.6	4305.8	4335.6	4352.3	4366.3
15°	4223.9	4247.2	4267.6	4300.2	4314.2
17.5°	4132.8	4149.5	4169.1	4201.6	4221.1
20°	4059.3	4064.0	4091.9	4120.7	4127.2
22.5°	3950.5	3960.7	3989.5	4009.0	4025.8
25°	3824.9	3838.9	3852.8	3875.1	3884.4
27.5°	3687.2	3695.6	3715.1	3730.9	3739.3
30°	3520.7	3539.3	3547.7	3555.1	3566.3
32.5°	3358.9	3364.5	3371.9	3376.6	3382.2
35°	3159.8	3160.8	3162.6	3163.6	3163.6
37.5°	2956.1	2962.6	2960.8	2955.2	2958.0
40°	2715.2	2726.4	2719.9	2703.1	2692.0
42.5°	2472.4	2466.9	2444.5	2394.2	2371.0
45°	2168.2	2150.5	2092.0	2028.7	1999.0
47.5°	1803.6	1764.6	1715.2	1665.9	1646.4
50°	1382.2	1376.7	1354.4	1334.8	1336.7
52.5°	990.6	1004.6	1009.2	1027.8	1037.1
55°	669.7	684.6	725.5	754.3	772.9
57.5°	407.4	436.3	480.0	527.4	551.6
60°	257.6	274.4	314.4	345.0	356.3
62.5°	161.0	161.9	181.4	205.6	215.8
65°	83.7	93.0	105.1	112.5	125.6
67.5°	52.1	52.1	51.1	62.3	69.7
70°	34.4	29.8	30.7	37.2	40.0
72.5°	12.1	20.5	18.6	18.6	13.0
75°	8.4	10.2	15.8	14.9	13.9
77.5°	11.2	10.2	7.4	6.5	13.0
80°	4.6	3.7	0.9	5.6	5.6
82.5°	4.6	1.9	5.6	7.4	4.6
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)